ABSTRACT

A bearing isolator mechanism is adapted to use with a machinery housing having rotatable shaft protruding through the housing. The isolator mechanism comprises a stator surrounding said shaft and being affixed to the housing, the stator having a single groove or multiple deep grooves in the stator extended radially from said shaft. The wall ends of the stator forming the sides of the deep groove are located in as close proximity as mechanically possible to the shaft. The groove is as deep and wide as possible within the mechanical constraints of the stators width and the material. The groove in said stator has a hole or orifice in the stator wall that connects said groove in said housing at the lower extremity of the groove in the stator. The hole or holes should interrupt the grooves outer diameter by one-half the diameter of hole or orifice. The holes if more than one, may be elongated and spaced around the circumference of the stator to permit positioning and rotation of the housing with relationship to the shaft.